

```

*          *          *          *          *          *
L-LDST-L-----RETNS--LPNSLAES--TCYLAPAFRRADSVPCVEMDMD
T-RPIP-LC-----PSKPNC--RPNSLAGS--TCYLAPAFCRADSLRLLEMDMD
-----MDPMD
ICVSAT-TC-----SPPPPCSSHHPHLLQSDSSFL-PLFFR-----MEPMD
ESP PATRCLRAHRRRPPSPSSGPPVPGGTRRRRRPQAQPSRFR-----RRGMDPMD
-----MDPMD
-----MDPMD
-----MDPMD
60

```

SEQ ID NO:04  
SEQ ID NO:06  
SEQ ID NO:10  
SEQ ID NO:14  
SEQ ID NO:20  
SEQ ID NO:22  
SEQ ID NO:41

```

**** ** **** ** **** ** **** ** **** ** **** **
IVGKSKEDVSLPKSTMVKI I KEMPLPDVRVARDAQDLLVECCVEFINLLSSESNEVCSRE
IVGKSKEDVSLPKSTMFKI I KEMPLPDVRVARDAQDLLVECCVEFINLLSSESNEVCSRE
IVGKSKEDVSLPKSTMFKI I KEMPLPDVRVARDAQDLLVECCVEFINLLSSESNEVCSRE
IVGKAKEDASLPKATMTKI I KEMPLPDVRVARDAQDLLIECCVEFINLVSESNEVCNKE
IVGKSKEDVSLPKSTMTKI I KEMPLPDVRVARDTQDLLVECCVEFINLLSSENDDVCSRD
IVGKSKEDVSLPKSTMTKI I KEMPLPDVRVARDTQDLLVECCVEFINLLSSENDDVCSRD
IVGKSKEDASLPKATMTKI I KEMPLPDVRVARDAQDLLIECCVEFINLVSESNDVCNKE
11
120

```

SEQ	ID	NO:04
SEQ	ID	NO:06
SEQ	ID	NO:10
SEQ	ID	NO:14
SEQ	ID	NO:20
SEQ	ID	NO:22
SEQ	ID	NO:41

\*\*\*\*\* \*\* \*\*\* \*\* \*\*\* \*\* \*\*\* \*\* \*\*\* \*\* \*  
 EKKTIAPEHVIKALSDLGFRYEIEEVYAAEQHKLETL-DSPKAGKFT-RIEMTEEEA  
 EKKTIAPEHVIKALSDLGFRYEIEEVYAAEQHKLETL-DSPKAGKFT-GIEMTEEEA  
 DKKTIAPEHVLRALQDLGFRYEIEEVQAAEYHHKHDTL-DSPKASKFT-GVEMTEEQVA  
 ERRTIAPEHVLKALGVLGFGEYIEEVYAAEQHKLETMQDSLKGAKSNRAEMTEEEALA  
 DKKTIAPEHVIRALQDLGFKEYVEEVYAAEQHKLETL-DSPKATKFT-GIEMTEEEA  
 DKKTIAPEHVIRALQDLGFKEYVEEVYAAEQHKLETL-DSPKATKFT-GIEMTEEEA  
 DKRTIAPEHVLKALQVLGFGEYIEEVYAAEQHKYEETMQDTQRSVKWNPQAQMTEEEAAA  
 121 180

SEQ	ID	NO:04
SEQ	ID	NO:06
SEQ	ID	NO:10
SEQ	ID	NO:14
SEQ	ID	NO:20
SEQ	ID	NO:22
SEQ	ID	NO:41

FIG. 1A

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```

SEQ ID NO:04      EQQRMFAEARARMNNGAPKPKETEQEPPLPQAQPQ--LQLHTEPQQPMQSQVQLHSQTQ
SEQ ID NO:06      EQQRMFAEARARMNNGAPKPKETEQEPPLPQAQPQ--LQLHTEPQQPVQSQVQLHSPTQ
SEQ ID NO:10      EQQRMFAEARARMNNGAANKPEPEQAQQQTQPPQ--PQLHPQPQQLPQLQLLHPQPQ
SEQ ID NO:14      EQQRMFAEARARMNGGAI--QSKEPADQ-S-----
SEQ ID NO:20      EQQRMFAEARARMNNGAANKPEPALEPQNQPQQPPQPHLQLHPQAQQPPQPQLLHPQPS
SEQ ID NO:22      EQQRMFAEARARMNNGAANKPEPALEPQNQPQQPPQPHLQLHPQAQQPPQPQLLHPQPS
SEQ ID NO:41      EQQRMFAEARARMNGGVSPQPEHPETDQRS-----
181                                     240

SEQ ID NO:04      HY---LQPQLQLLHHQPQQLPQVQLHSQPQL-----QPQVHLHPQPQLPPQLQVHQQLQQ
SEQ ID NO:06      HS---LQPQVQLHPQPQQLPQVQVHSQTQLHPQ-PQPQVQVHPQLQQLPQLQAHSQPPQ
SEQ ID NO:10      QQPSQLHPQQLLHPQSQQTPQ---PQPQVHPQ-PQQPP-QLQPQPQLLQPPQLPQQLQ-
SEQ ID NO:14      -----
SEQ ID NO:20      QQPLHPQLQPYTQAPPQQPLHPQLQPYTQAPPQQPLQPLQLYPQAQPEQLQPQSSGST
SEQ ID NO:22      QQPL---QPFTQAPPQQPLHPQLQQYTQAPPQQPLQPLQLYPQAQPEQLQPQSSGST
SEQ ID NO:41      -----
241                                     300

SEQ ID NO:04      PPQVQVHQQPEVQPQEAQLQSSAQQTSPQPQAQ-----L-QSQGHSQAQLQAGLLGQ
SEQ ID NO:06      P-QVQIHPQPQ-QPPQVQLQSSVQQTSPQPQVH-----LYNHRGGSQAQLQPQLPGQ
SEQ ID NO:10      -PQSQLPPQPQ-QPPQLQLQSLHPQPQPPQLQ-----P-QPQLHQQPQPQAEELQSQ
SEQ ID NO:14      -----
SEQ ID NO:20      TGTCVISTAAPSATGTTAAATSAPAIPA-----ISTAAPSATPADASAAAAA
SEQ ID NO:22      TGTCVISAAAPSATGTTLLQPPPPQSPQSQLHQHPQPTLVPPPPQPQPLELQPPQL
SEQ ID NO:41      -----
301                                     360
```

FIG. 1B

SEQ	ID	NO:04	
SEQ	ID	NO:06	
SEQ	ID	NO:10	
SEQ	ID	NO:14	
SEQ	ID	NO:20	
SEQ	ID	NO:22	
SEQ	ID	NO:41	

\*

LQTQAQTGPPDMS	
LQTQGQTGPGIDS	
SQPQTEHGLD-SS	
-----LES	
AATSTP-----AT	
TQLQAEHGLDWDS	
-----PQS	
361	373

FIG. 1C

[illegible]

**FIG. 2A**

SEQ ID NO: 28	T-----NSKVEEA-STDHQ---SDWMPDATTGNI	GVG	PSFGHLTVQV	DEDE-DYD	NED-
SEQ ID NO: 32	EIPAPNPKEEAKNDHQ---	PDWMPDAIGNIGV	PSFGHLTVQV	DEDE-DYD	NED-
SEQ ID NO: 34	SVPEPDASVPEPPTESKHEEIPGWSLSD-	VDKMAIDSLQALQ	LRPLEEDEEDYDEEEG		
SEQ ID NO: 40	T-PAVISKVEEA-STNHQ---	PDWMPDAIGGIGV	GPSSFGLH	TVQV	DEVE-DYD
SEQ ID NO: 42	SAPD-----	-----	-----	EEDEEDYDS	---
	241				299

FIG. 2B

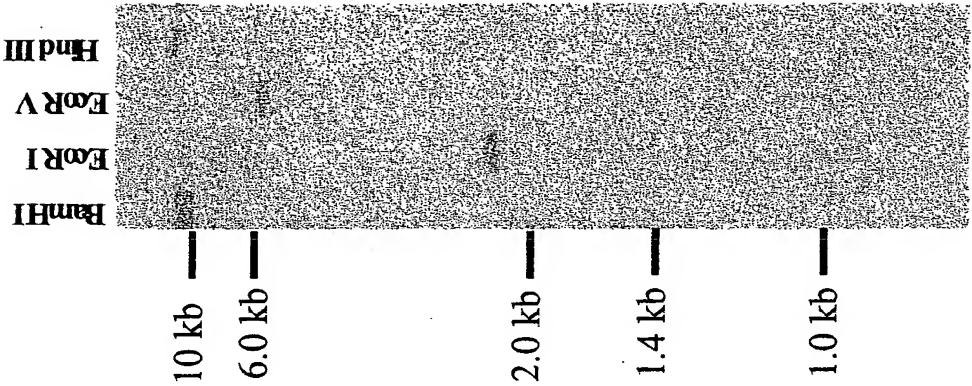


FIG. 3B

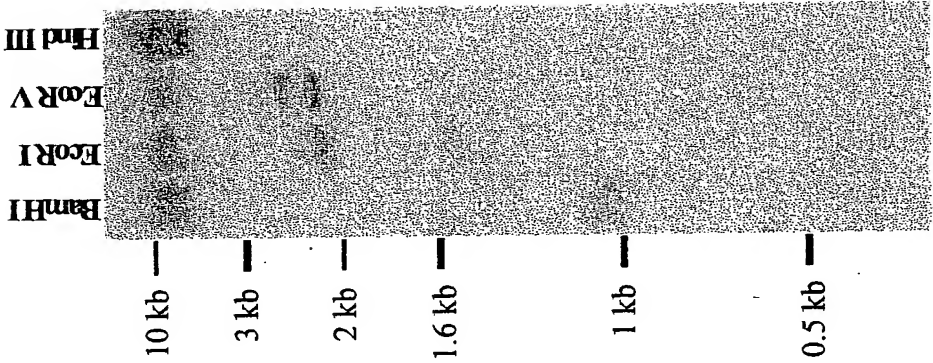


FIG. 3A

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pBDGal4::rDRAP1



pADGal4::rDr1



FIG. 4A

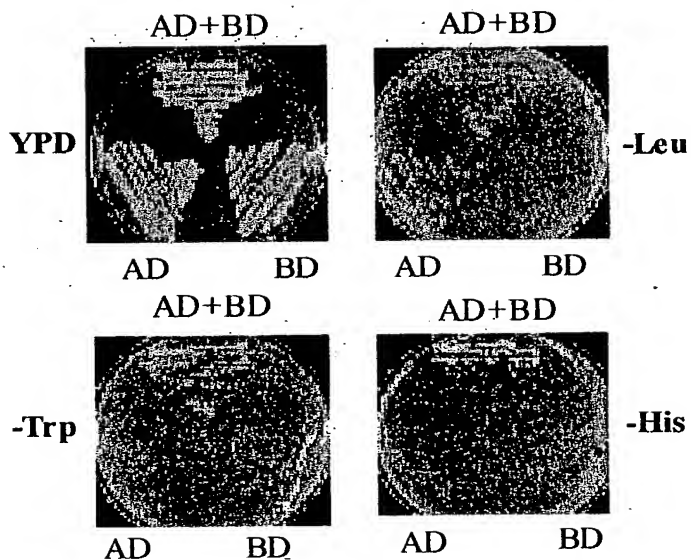


FIG. 4B

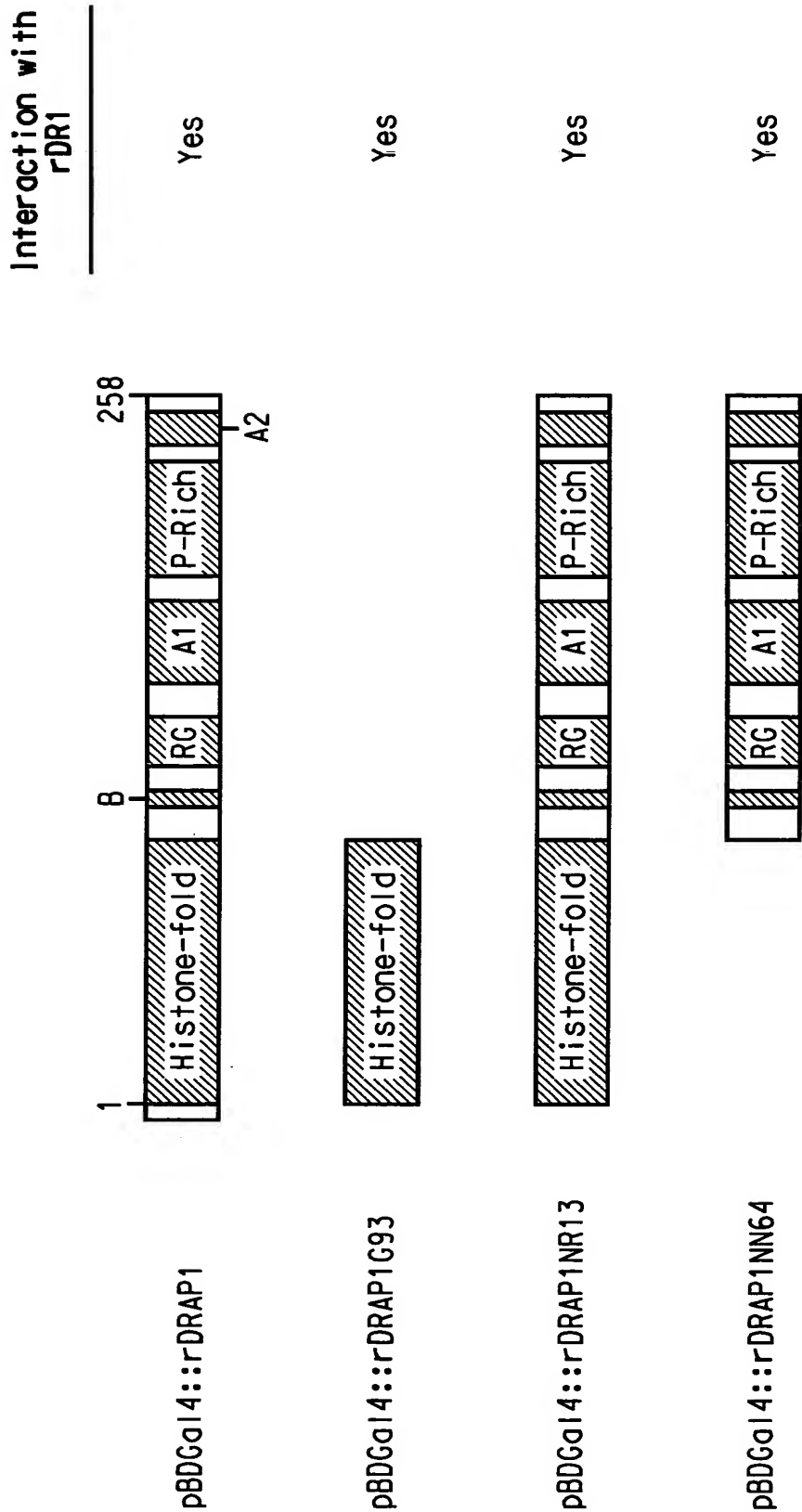
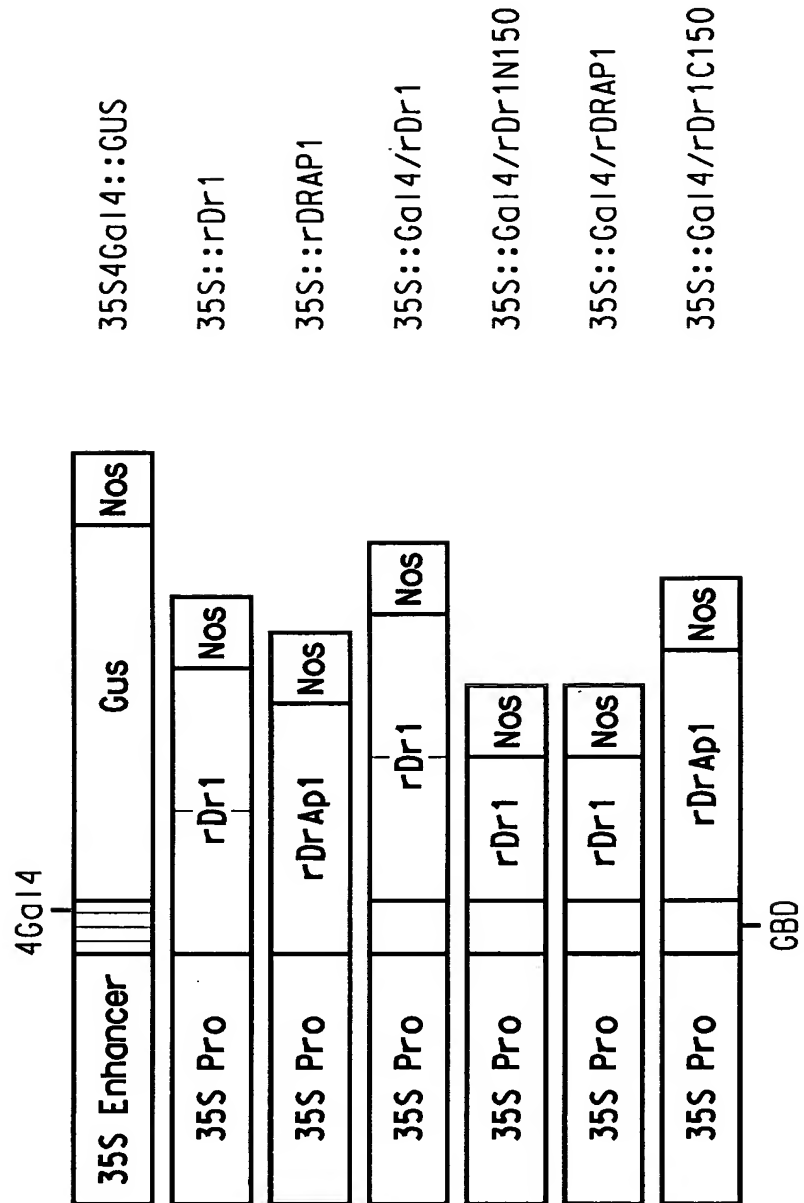


FIG. 4C





**FIG. 5A**

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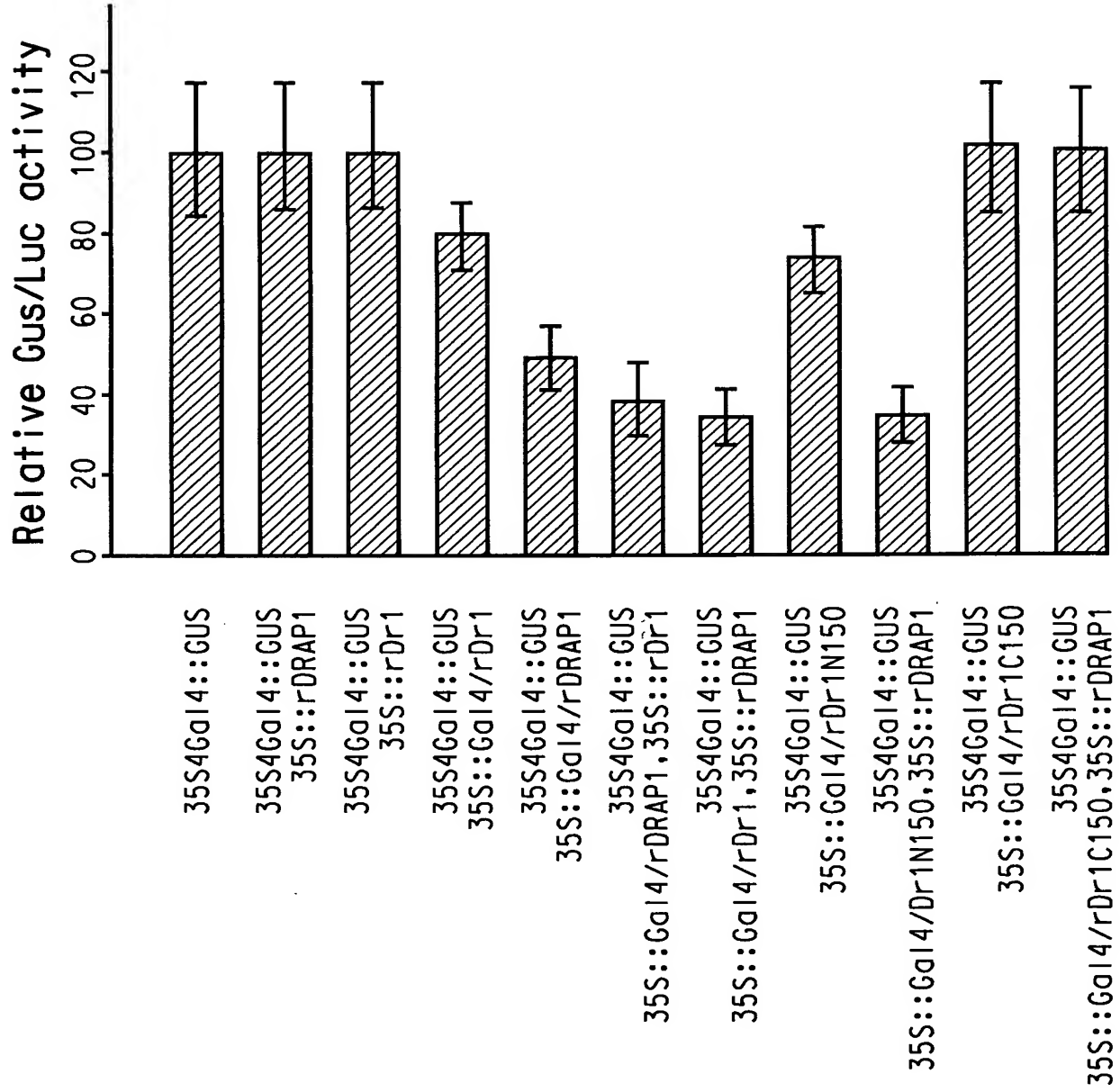


FIG. 5B

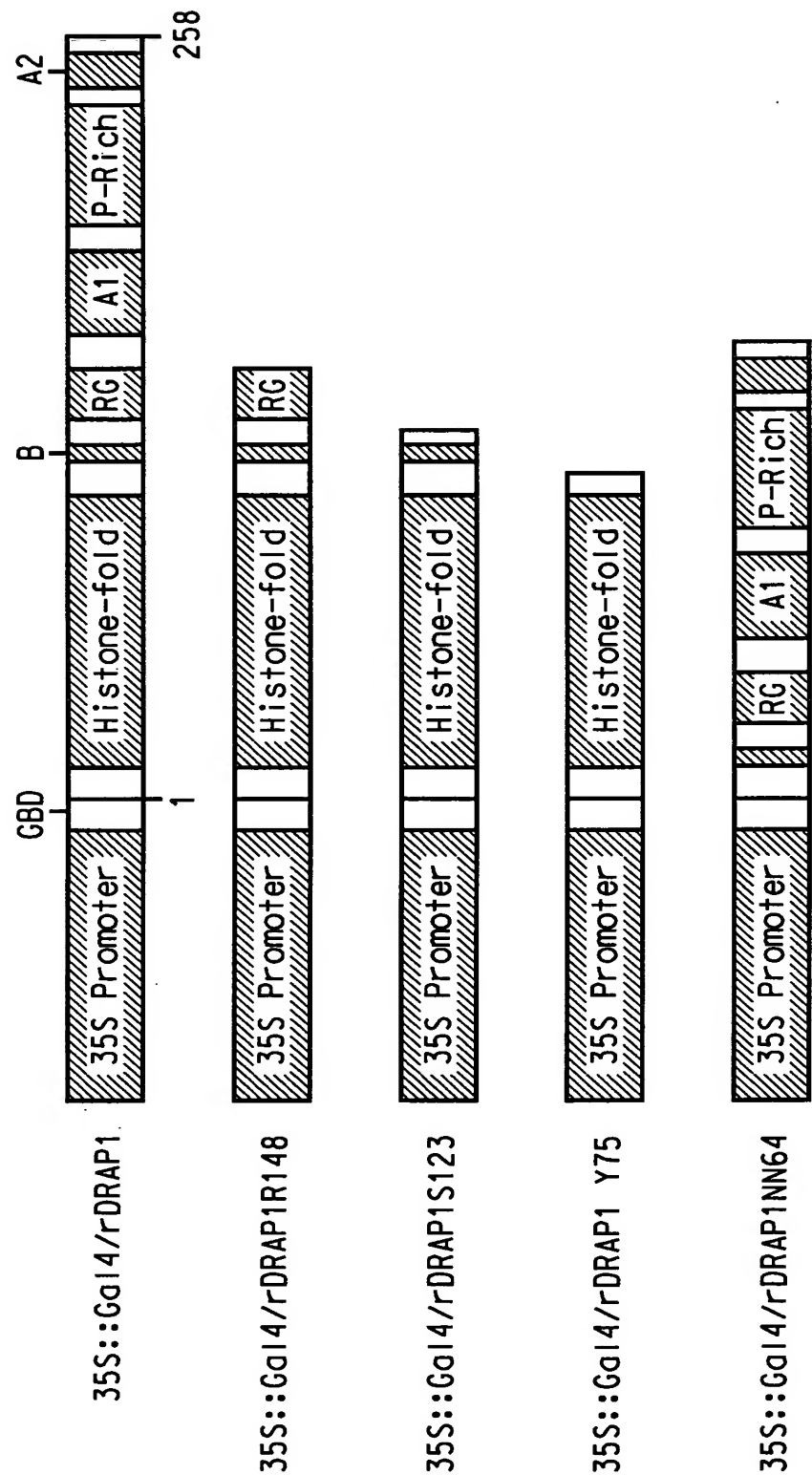


FIG 6A

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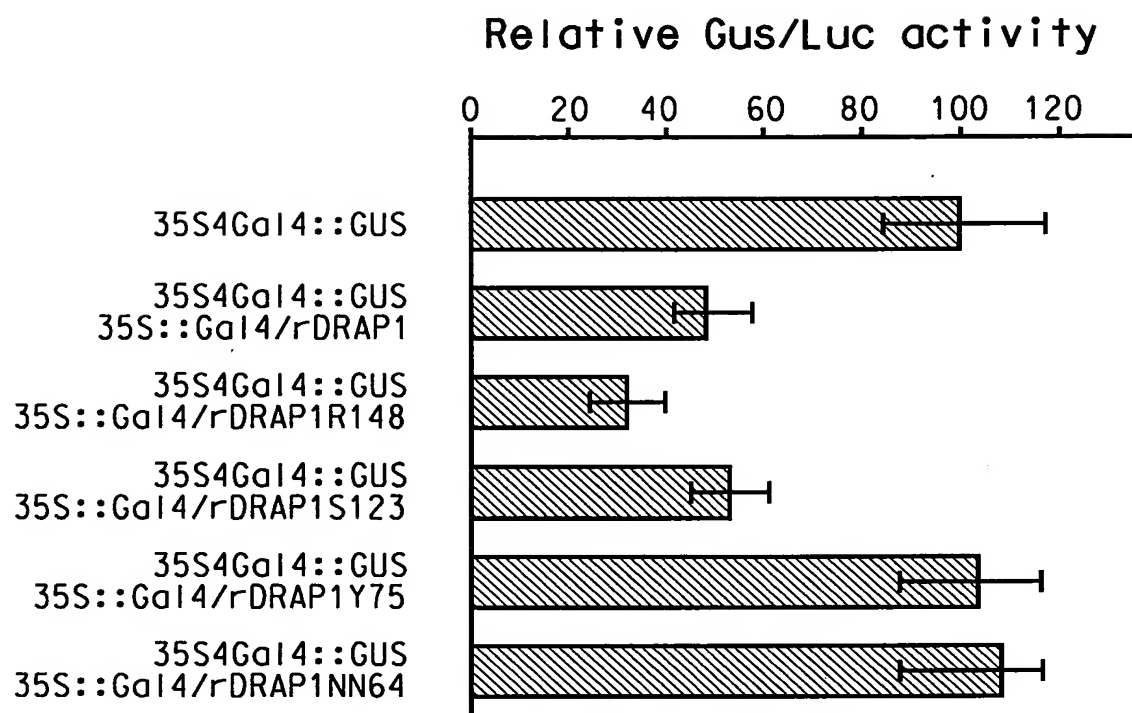


FIG. 6B

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pRTL2-mGFP

mGFP
------

p35S::rDr1/mGFP

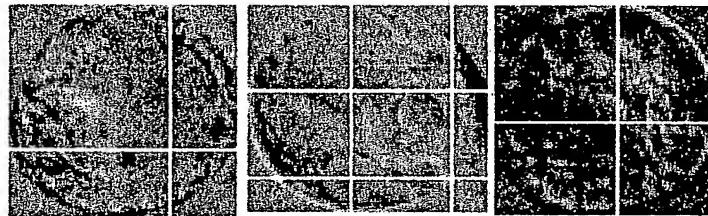
rDr1	mGFP
------	------

p35S::rDRAP1/mGFP

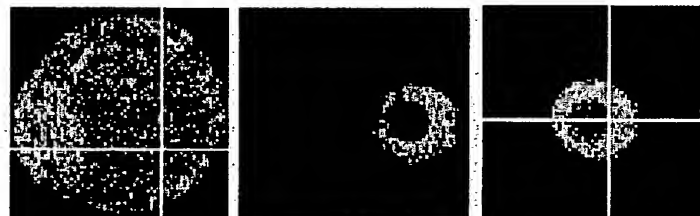
rDRAP1	mGFP
--------	------

FIG. 7A

DIC



GFP



mGFP

rDr1/mGFP

rDRAP1/mGFP

FIG. 7B

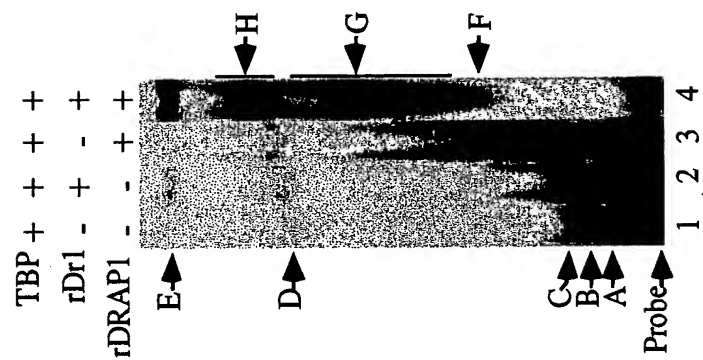


FIG. 8B

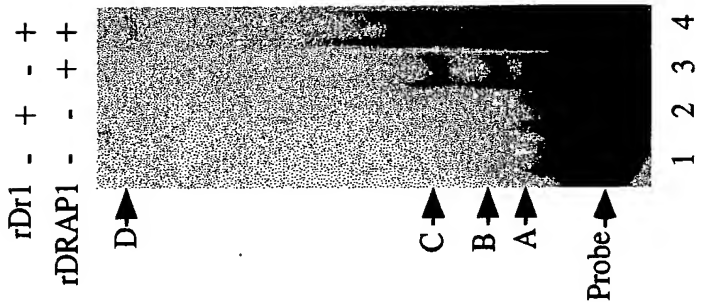


FIG. 8A

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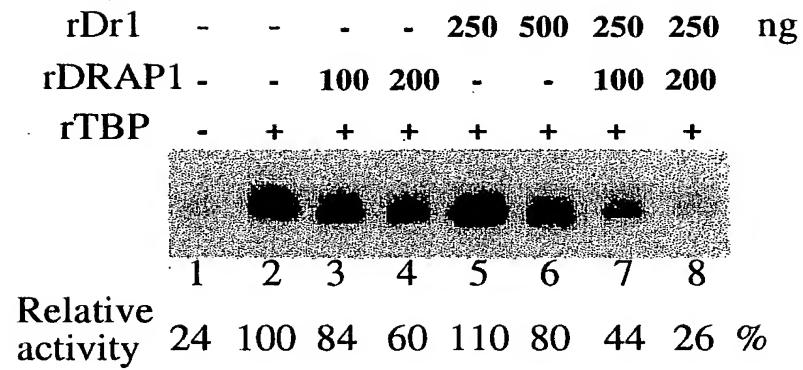


FIG. 9